

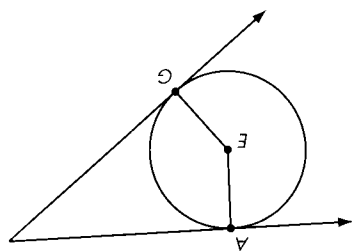
## Take Another Look 7.3

- Use a geometry computer program or patty papers to confirm one of your tangent conjectures.

- Choose one of the conjectures in this lesson and explain how it follows logically from earlier conjectures.

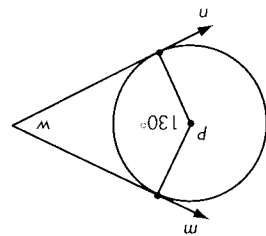
- Investigate and state a conjecture about the quadrilateral formed by two tangent segments to a circle and the two radii to the points of tangency. Explain why you think your conjecture is true.

- State a conjecture for segments in space tangent to a sphere. Make a sketch. Test your conjecture with physical objects and explain why you think your conjecture is true.



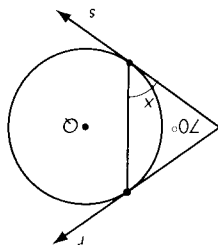
## Exercise Set 7.3

- Rays  $m$  and  $n$  are tangents.



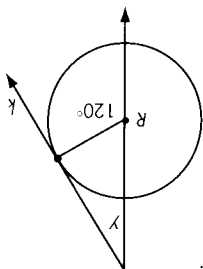
$w = -?$

- Rays  $r$  and  $s$  are tangents.



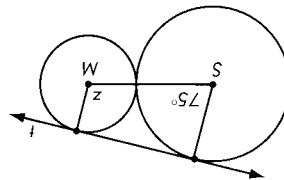
$x = -?$

- Ray  $k$  is a tangent.



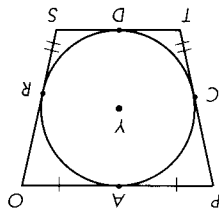
$y = -?$

- Line  $t$  is a tangent to both



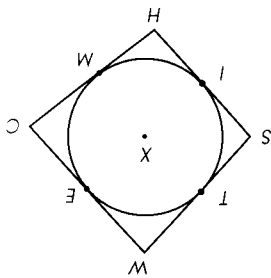
circles.  $z = -?$

- Quadrilateral  $POST$  is



the perimeter of  $POST$ ?

- Quadrilateral  $SHOW$  is



perimeter of  $SHOW$ ?

circumscribed about circle  $Y$ .

circumscribed about circle  $X$ .

and  $ST = 5$ . What is the

perimeter of  $SHOW$ ?

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- Find a real-world example (different from the examples shown in the text) of two internally tangent circles and of two externally tangent circles. Either sketch the examples or make photocopies from a book or a magazine to put into your notebook.